

Reference version 1
2000-01-01 10:00:00

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12	12.8	71.1	76	19	V41583
13	12.4	68.9	24	21	A37941
14	12.4	68.9	50	16	Q93315
15	12.2	67.8	50	19	V49704
16	12.2	67.8	50	20	X08857
17	12.2	67.8	54	18	X62731
18	12.2	67.8	60	16	T00252
19	12.2	67.8	62	19	V49706
20	12.2	67.8	62	19	V45309
21	12.2	67.8	62	20	X08859
22	12.2	67.8	69	19	V49705
23	12.2	67.8	69	20	X08858
24	12.2	67.8	81	19	V49707
25	12.2	67.8	81	19	V45310
26	12.2	67.8	81	20	X08860
27	12.2	67.8	94	16	T25403
28	12.2	66.7	23	20	X00943
29	12.2	66.7	27	20	X00937
30	11.8	65.6	18	21	A58499
31	11.8	65.6	21	20	X27526
32	11.8	65.6	31	21	A78761
33	11.8	65.6	35	16	T05676
34	11.8	65.6	44	14	Q42165
35	11.8	65.6	44	14	Q42166
36	11.8	65.6	45	20	Z39334
37	11.8	65.6	45	21	Z78631
38	11.8	65.6	73	16	T24163
39	11.8	65.6	78	20	X16096
40	11.8	65.6	78	20	X16097
41	11.6	64.4	20	20	Z05959
42	11.6	64.4	30	19	V33382
43	11.6	64.4	32	18	T65660
44	11.6	64.4	32	18	T65661
45	11.6	64.4	32	19	V55466

ALLIANCE

RESULT 1
XX 1. 30.00 standard, 100, 12 BP.
XX 2. 30.00 standard, 100, 12 BP.
XX 3. 30.00 standard, 100, 12 BP.

XX 4. 30.00 standard, 100, 12 BP.
XX 5. 30.00 standard, 100, 12 BP.

XX 6. 30.00 standard, 100, 12 BP.
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XX 10. 30.00 standard, 100, 12 BP.
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XX 12. 30.00 standard, 100, 12 BP.
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XX 36. 30.00 standard, 100, 12 BP.
XX 37. 30.00 standard, 100, 12 BP.

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Query Match: 74.3%; Score 14.2; DB 16; Length 65;
Best Local Similarity: 84.3%; Prod. No. 1.2e-04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 cgaaggaacattatcat 18
DB 11 cgaaggaacattatcat 28

RESULT 6
VZ3814/c
ID VZ3814 standard; DNA; 27 BP.
AC VZ3814;
XX
DE 29-JUL-1998 (first entry)
XX
DE Primer KAN-2 for Nitrosomonas diaK gene promoter.
XX
KW Heat shock promoter: diaK gene; stress sensitive; prok. regulation also?;
KW PCR primer: SS.
XX
OS Synthetic.
OS Nitrosomonas europaea.
XX
PN JPT0108678-A.
XX
PN 28-APR-1998.
XX
PF 07-OCT-1996; 96JP-0266320.
XX
PR 07-OCT-1996; 96JP-0266320.
XX
PA (KURUK) KURITA WATER IND LTD.
DB WPT: 1648-004973/27
XX
XX New heat-shock promoter from Nitrosomonas species isolated from soil, used measuring oxidative stress caused by ammonia
PT measuring oxidative stress caused by ammonia
XX
XX Example 1; Page 8; 18pp; Japanese.
XX
XX This sequence is a primer for the diaK gene promoter of Nitrosomonas europaea. The heat shock promoter (db) of the amplified DNA is an example of the promoter of the invention. The hp can be used in a stress sensing gene comprising: (a) a fused DNA fragment comprising hp, and (b) a DNA fragment positioned downstream of the fragment of (a), comprising a structural gene encoding a protein for detecting a gene expression. A microorganism carrying the stress-sensing gene may be used to measure the oxidative stress caused by ammonia, by culturing it and measuring the expression of the stress-sensing gene. The method can measure the oxidative stress easily and rapidly.
XX
SQ Sequence 27 BP; 4 A; 10 C; 9 G; 4 T; 0 other;

Query Match: 71.1%; Score 12.8; DB 19; Length 27;
Best Local Similarity: 87.5%; Prod. No. 1.2e-04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 cgaaggaacattatcat 16
DB 16 CGGACCGGACGTCGCT 1

RESULT 8
VZ4737/c
ID C64689 standard; DNA; 27 BP.
AC C64689;
XX
DE 27-FEB-2001 (first entry)
XX
DE Plasmid constructed in PCR primer Kan 1; DB 15-9-94.
XX
KW Nitrosomonas europaea; TTPX; TRPA-1; TRPA-2; frozen microbial body;
KW ammonia oxidising microbe; inhibition; nitrification; bacteriase;
KW PCR primer: SS.
XX
OS Synthetic.
XX
OS JPT000262265-A.
XX
ID 26-SEP-2000.
XX
PF 15-MAR-1999; 99JP-0067954.
XX
PR 15-MAR-1999; 99JP-0067954.

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DE Primer KAN 2 used to amplify the kanamycin acetyl transferase gene.
XX
XX kanamycin acetyl-transferase gene; inhibition; nitrifying activity;
KW ammonia oxidising bacterium; PCR primer: SS.
XX
OS Synthetic.
XX
PN EP835940-A1.
XX
PN 15-APR 1998.
XX
PF 08-OCT 1997; 97EP-0117655.
XX
PR 08-OCT 1996; 96JP-0267073.
XX
PA (KURUK) KURITA WATER IND LTD.
XX
PN Hizumi 1;
XX
PF WPT: 1648-004973/19.
XX
DE Detecting inhibition of nitrifying activity of ammonia-oxidising bacteria - using recombinant bacterium containing luciferase reporter gene construct
XX
XX Disclosure: Page 7; 19pp; English.
XX
XX PCR primers VZ2990-91 were used to amplify the kanamycin acetyl transferase gene of 3593. The amplified sequence was used to create a construct that is used to inhibit the nitrifying activity of ammonia-oxidising bacteria. The method comprises transforming an ammonia oxidising bacterium with a DNA construct that contains a luciferase gene under the control of a promoter capable of initiating expression of the luciferase gene under conditions where nitrification occurs in the bacterium. A sample solution is incubated with a culture of the recombinant bacterium and visible light emission, catalysed by the luciferase, is measured.
XX
SQ Sequence 27 BP; 4 A; 10 C; 9 G; 4 T; 0 other;

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Query Match: 71.1%; Score 12.8; DB 19; Length 27;

Best Local Similarity: 87.5%; Prod. No. 1.2e-04;

Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 cgaaggaacattatcat 16

DB 16 CGGACCGGACGTCGCT 1

RESULT 8

VZ4737/c

ID C64689 standard; DNA; 27 BP.

AC C64689;

XX

DE 27-FEB-2001 (first entry)

XX

DE Plasmid constructed in PCR primer Kan 1; DB 15-9-94.

XX

KW Nitrosomonas europaea; TTPX; TRPA-1; TRPA-2; frozen microbial body;

KW ammonia oxidising microbe; inhibition; nitrification; bacteriase;

KW PCR primer: SS.

XX

OS Synthetic.

XX

OS JPT000262265-A.

XX

ID 26-SEP-2000.

XX

PF 15-MAR-1999; 99JP-0067954.

XX

PR 15-MAR-1999; 99JP-0067954.

XX

QV 2 qqaaqqaaqqaaqqaa 17
 DB 8 llllllllll 23

RESULT 11
 ID A77417 standard; cDNA; 51 BP.
 XX A77417;
 AC A77417;
 DT 16-NOV-2000 (first entry)
 DE Human clone c44438456 polymorphic sites; also ID B-1138.
 KW Human; single nucleotide polymorphism; SNP; chromosome 2;
 KW detection; identification; gene therapy; ss
 XX Homo sapiens.
 OS
 FH key location/qualifiers
 FI variation replace (2b,A)
 FI /★tag a
 PN W02000296.34-A2.
 XX 25-MAY-2000.
 XX 17-NOV-1999; 9980-0827.234.
 XX 17-NOV-1998; 9808-0109024.
 XX 16-NOV-1999; 9908-0109024.
 XX (CURA-) CURAGEN CORP.
 XX Shinketsu KA, Leach MB;
 DR WPI; 2000-387826/33.
 XX Human nucleic acids containing single nucleotide polymorphisms, useful
 PT for treating a subject suffering, or at risk from a pathology due to
 PT the presence of a sequence polymorphism.
 XX Claim 1; Page 490; 54pp; English.
 XX Sequence A76419-A77500 represent 1192 human nucleic acid sequences
 CC which contain single nucleotide polymorphisms (SNPs) sequences 1 to
 CC 1112 (A76419-A77429) are consecutive pairs of nucleotides which contain
 CC silent SNPs. Sequences 1113 to 1192 (A77430-A77500) are consecutive pairs
 CC of nucleotides containing SNPs which result in changes in the
 CC corresponding amino acid sequences (B11749 B11828). The SNPs in sequences
 CC 1113 to 1192 (A77430-A77445) lead to conservative amino acid changes,
 CC while those in sequences 1129 to 1196 (A77446-A77500) result in non-
 CC conservative changes. The SNPs in sequences 1187 to 1192 (A77501-A77507)
 CC generate frameshift mutations. The invention also relates to a method of
 CC detecting a polymorphic site in a nucleic acid and a method of
 CC determining the relatedness of two nucleic acids. It also encompasses
 CC peptides containing polymorphic sites, antibodies raised against such
 CC peptides, and a method of detecting polymorphic proteins/peptides using
 CC the antibodies. The nucleic acids are useful for gene therapy of an
 CC individual having, suspected of having, or at risk of developing a
 CC pathological condition due to the presence of a sequence polymorphism.
 CC Such treatment would comprise administration of the wild type nucleic
 CC acid sequence. Antibodies raised against polymorphic peptides can also
 CC be used in the treatment of such individuals.
 XX Sequence 51 BP; 12 A; 13 C; 17 G; 9 T; 0 other;

Query Match 71.1%; Score 12.8; DB 21; Length 51;
 Best Local Similarity 87.5%; Prod. No. 1,46-93;
 Matches 14; Conservative 2; Mismatches 9; Gaps 0;

QV 2 qqaaqqaaqqaaqqaa 17
 DB 20 qqaaqqaaqqaaqqaa 35

RESULT 12
 ID V41383 standard; DNA; 76 BP.
 XX V41383;
 AC V41383;
 DT 08-DEC-1998 (first entry)
 DE Nested DNA fragment F1.
 XX DNA fractionation, sequencing, protein affinity assays, modification;
 KW to-convert; Fluorescent chip; antibody screening; cloning; mapping; ss.
 XX Synthesis.
 OS
 FH WC9827.229-A1.
 FI 25-JUN-1998.
 XX 16-DEC-1997; 97W-0823242.
 XX 17-DEC-1996; 96US-0768893.
 XX (CURA-) GENIV CHINA AGO.
 XX Dubrovly SA, Lysov VP, Milzabekov AB;
 DR WPI; 1998-462796/41.
 XX Affinity fractionation and sequencing of DNA using arrays of
 PT complementary oligonucleotide(s) and multi-step conversion of
 PT manipulation of nanolitre samples in polyacrylamide vessels, e.g.
 PT for antibody screening
 XX Disclosure; Fig 3; 20pp; English.
 XX This represents a nested DNA fragment used to simplify the methods of
 CC invention of affinity fractionation and sequencing of DNA. One method
 CC comprises cleaving DNA into fragments of predetermined length, labelling
 CC the fragments and hybridising them to an array of isolated
 CC oligonucleotides complementary to bases of the DNA fragments that have
 CC hybridised are recovered and hybridised to a second array of immobilised
 CC oligonucleotides, some of which are complementary to the hybridised
 CC fragments. Labelled oligomers complementary to the hybridised fragments
 CC that have re-hybridised to the second array are attached. The invention
 CC also provides a method for performing multi-step conversion of compounds
 CC by adding the compounds to each vessel in an array of polyacrylamide
 CC vessels (each vessel containing a single immobilised reactant) in a
 CC predetermined sequence. After reactions, converted compounds from the
 CC array are isolated. A second method for manipulating nanolitre quantities
 CC of compounds comprises removably attaching compounds to a polyacrylamide
 CC vessel, having the compound from a fraction to several hundred nanolitre,
 CC modifying the compound while confined in the vessel and recovering
 CC modified products. These methods can be used for DNA fractionation/
 CC sequencing or in protein affinity assays, e.g. for constructing a
 CC database. Embodiments for antibody screening. DNA separation can now
 CC be done without costly cloning and mapping stages. The second method
 CC allows many fractionation/modification reactions (including multi-step
 CC conversions) to be performed simultaneously and in a site specific
 CC manner.
 XX Sequence 76 BP; 19 A; 19 C; 28 G; 10 T; 0 other;

Query Match 71.1%; Score 12.8; DB 19; Length 76;
 Best Local Similarity 87.5%; Prod. No. 1,46-93;
 Matches 14; Conservative 0; Mismatches 2; Gaps 0;

[illegible]

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 100
 100
 100

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RESULT 15
V49704/c
ID V49704 standard; DNA; 50 bp.
XX
AC V49704;
XX
DT 01-NOV-1998 (first entry)
XX
EE Human J chain target molecule DNA oligonucleotide 15.
XX
KW Target; imaging agent; epithelium; transepithelial transport; diagnosis;
KW transcytosis, disease; basolateral; internalisation; J chain; primer; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN W09830591-A1.
XX
DD 16-JUL-1998.
XX
PF 09-JAN-1998; 98WO-US00339.
XX
PR 10-JAN-1997; 97US-0762480.
XX
PA (EPIC) EPICYTE PHARM INC.
XX
PI Fitchett JH, Hein MB, Hiatt A*.
XX
DR WPI: 1998-399066/34.
XX
PI New epithelial tissue targeting agent, used to deliver imaging
PI agents to an epithelial surface for internalisation; useful in
PI diagnosis
XX
PS Example 1c; Page 100; 118pp; English.
XX
CC V4972-V4975 are oligonucleotides used in a method resulting in the
CC construction of a target molecule from human J chain protein fragments.
CC This construct is used in a method to target imaging agents to epithelial
CC surfaces at which they may remain or undergo transepithelial transport
CC via transcytosis. At least one imaging agent is linked to the targeting
CC molecule comprising a polypeptide that (a) forms a closed covalent loop,
CC (b) contains at least 3, preferably 4, peptide domains having beta-sheet
CC character separated by domains lacking beta-sheet character and (c) is
CC not full length dimeric IgA. The imaging agents are useful in the
CC diagnosis of disease. The target molecule is also capable of specifically
CC binding to a basolateral factor associated with an epithelial surface to
CC cause internalisation of a biological agent linked to the target
CC molecule.
XX
SQ Sequence 50 BP; 14 A; 14 C; 12 G; 10 T; 0 other;

Query Match 67.8%; Score 12.2; DB 19; Length 50;
Best Local Similarity 82.4%; Prod. No. 2-56-03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 cggagggccattgcca 17
DB 11 |1111111111111111|
DB 27 CGTAAAGGGTACGTTTCCA 11

Search completed: May 5, 2001, 11:52:41
Job time: 6404 sec

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Example 1: Page 40; 64pp; English.

XX This sequence is a PCR primer for DNA encoding human EBF-1.
 CC The invention relates to methods of detecting (ant)agonist, inverse
 CC agonist or allosteric modulators of the 1564 basepair LPA acid receptors
 CC EBF-1, EBF-2, EBF-3, EBF-4, EBF-5, and EBF-24. The methods are used to
 CC identify (ant)agonists and allosteric modulators of the lysophosphatidic
 CC acid (LPA) EBF2 receptor, e.g. to treat LPA signalling mediated disease
 CC such cellular apoptosis.
 XX Sequence 45 BF, 5 A; 15 G; 12 C; 3 T; 0 other;
 SQ

Query Match 100.0%; Score 18; LBL 20; Length 45;
 Best Local Similarity 100.0%; Pred. No. 7.9; Mismatches 0; Gaps 0;
 Matches 18; Conservative 0;

QY 1 query:qqqqccccccat 18
 ID 32 GAGGATGGATGGATGGAT 15
 AC 11111111111111111111

RESULT 2
 ID 196666; standard: cDNA; 19 bp.
 AC T96666;

DE 27-APR-1998 (first entry)

XX Human TUB gene 3' end primer for radiation hybrid mapping.
 DE TUB; tub gene; human; sensory neuron; neurosensory defect;
 KW cochlear degeneration; hearing loss; deafness; retinal dystrophy;
 KW retinitis pigmentosa; combined rod cone dystrophy; obesity;
 KW animal model; transgenic animal; therapy; diagnosis; PCR; primer;
 SS.

OS Synthetic.
 OS Homo sapiens.

XX W09748004 AL.

XX 16-OCT-1997.

XX 10-APR-1997; 97wo 0505903.

XX 17-SEP-1996; 96US-0714931.

XX 10-APR-1996; 96US-0640592.

XX 22-AUG-1996; 96US-0731490.

XX 04-SEP-1996; 96US-0706292.

XX (JACK-) JACKSON LAB.

XX (SEQU-) SEQUANA THERAPEUTICS INC.

XX KAPPERT L. Nishina F. Nishina-Frauth K. Nishina F.

XX WPI: 1997-512642/47.

XX Mammalian TULP protein used for detecting pre-disposition to

XX neuro-sensory defects

XX Dislosure; Page 45; 84pp; English.

XX PCR primers (196664 and 196664) were designed for the 3' non-coding

XX region of the human TUB gene (see 196664) and were used in

XX radiation hybrid mapping, generating a product of 223 bp. Another

XX primer pair (see 196661-62) amplified the 5' region of TUB, and a

XX further pair (see 196665-66) amplified TULP cDNA (see 196642).

XX TUB and TULP are novel members of the mammalian TULP gene family

XX associated with various defects in sensory neurons such as

XX cochlear defects, retinitis pigmentosa and combined rod cone

XX dystrophy.

XX Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;
 SQ

Query Match 73.4%; Score 13.2; LBL 19;
 Best Local Similarity 93.4%; Pred. No. 1.0000;
 Matches 15; Conservative 0; Mismatches 4; Gaps 0;

QY 1 query:qqqqccccccat 18
 ID 11111111111111111111
 AC 19 GAGGATGGATGGATGGAT 2

RESULT 3
 ID A94661; standard: DNA; 19 bp.
 AC A94661;

DE 15 JAN 2001 (first entry)

XX Human TULP1 gene PCR primer #2.

XX Human; TULP1; neurosensory defect; retinal; retinal dystrophy; PCR primer.

XX TUB; ss.

XX Homo sapiens.

XX OS6114502-A.

XX 05 SEP 2000.

XX 27-FEB 1998; 96US-0042455.

XX 22-AUG 1996; 96US-0701580.

XX 04 SEP 1996; 96US-0706292.

XX 10 APR 1996; 96US-0640592.

XX 17-SEP 1996; 96US-0714991.

XX 30-APR 1997; 97US-0850218.

XX 01-AUG 1997; 97US-0904699.

XX 17-SEP 1997; 97US-0942306.

XX (AXYS-) AXYS PHARM INC.

XX North M. Nishina F. Nishina-Frauth K. Nishina F.

XX WPI: 2000-586484/55.

XX Mammalian proteins expressed in retina and brain, useful for producing

XX and bodies and for diagnosing neurosensory defects including cochlear

XX degeneration, peripheral retinal degeneration and combined retinal

XX dystrophy.

XX Dislosure; Column 26; 61pp; English.

XX The present invention relates to human and murine cDNAs from a

XX neurosensory defect associated gene family. The novel cDNAs are mouse TUB

XX form 1 (see A94629), mouse TULP form 1 (see A94630), human TUB form 6

XX (see A94631), human TULP form 1 (see A94632), human TULP form 2 (see A94633),

XX human TULP2 (see A94634), human TULP3 (see A94635) and mouse TULP4 (see

XX A94636). The novel coding sequences are useful as immunogens to raise

XX antisera for specifically identifying neurosensory expressed cells and in

XX drug screening assays directed at neurosensory defects. The novel

XX proteins encoded by the present sequence can be used for the treatment of

XX neurosensory degenerative conditions e.g. retinal dystrophies. The

XX present sequence is a PCR primer used to isolate the novel genes of the

XX present invention.

XX Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;
 SQ

Query Match 73.4%; Score 13.2; LBL 19;
 Best Local Similarity 83.4%; Pred. No. 1.0000;


```

XX 17 AUG 1999 (first entry)
DI Human beta-1,4-galactose transferase PCR primer #4.
DE Human: beta-1,4-galactose transferase; preparation; PCR primer: ss.
KW Synthetic.
OS Homo sapiens.
XX JP11147247-A.
XX 25-MAY-1999.
XX 10-NOV-1997; 97JP-0406967.
XX 10-NOV-1997; 97JP-0406967.
XX (1-9M) Toyoko KK.
XX WPI; 1999-374371/32.
XX Preparing beta-1,4-galactose transferase using recombinant
XX techniques
XX Example 1; Page 8; 9pp; Japanese.
XX A method has been developed for the preparation of human-derived
XX beta-1,4-galactose transferase. The method comprises transformation of
XX Escherichia coli by an expression vector containing a gene encoding
XX human-derived beta-1,4-galactose transferase and a gene coding
XX maltose-combined protein. The transformant is cultured to form a fusion
XX protein consisting of human-derived beta-1,4 galactose transferase and
XX maltose-combined protein. The fusion protein is purified by affinity
XX chromatography and digested with enzymes to form beta-1,4-galactose
XX transferase. The method can be used to prepare human derived
XX beta-1,4-galactose transferase easily and efficiently in large amounts.
XX The present sequence represents a PCR primer for human
XX beta-1,4-galactose transferase.
XX Sequence 27 BP; 7 A; 6 C; 6 G; 6 T; 0 other;

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Query Match 68.9%; Score 12.4; DB 20; Length 27;
Best Local Similarity 92.9%; Pred. No. 3.1e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 5 ctatqtqtccat 18
DB 11 tttttttttt
DB 5 ctatqtqtccat 18

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Search completed: May 5, 2001, 11:52:49
 Job time: 6402 Sec